

SEQUENCE LISTING

<110> James A. Hoffmann and Jirong Lu

<120> FSH FORMULATION

<130> X12383N Sequence Listing

<140>

<141>

<150> 60/093906

<151> 1998-07-23

<150> 60/094611

<151> 1998-07-30

<150> 60/094767

<151> 1998-07-31

<150> 60/098711

<151> 1998-09-01

<150> 60/100696

<151> 1998-09-17

<160> 20

<170> PatentIn Ver. 2.0

<210> 1

<211> 96

<212> PRT

<213> mammalian

<400> 1

Phe	Pro	Asp	Gly	Glu	Phe	Thr	Met	Gln	Gly	Cys	Pro	Glu	Cys	Lys	Leu
1				5					10					15	

Lys	Glu	Asn	Lys	Tyr	Phe	Ser	Lys	Pro	Asp	Ala	Pro	Ile	Tyr	Gln	Cys
		20						25					30		

Met	Gly	Cys	Cys	Phe	Ser	Arg	Ala	Tyr	Pro	Thr	Pro	Ala	Arg	Ser	Lys
		35					40					45			

Lys	Thr	Met	Leu	Val	Pro	Lys	Asn	Ile	Thr	Ser	Glu	Ala	Thr	Cys	Cys
	50					55					60				

Val	Ala	Lys	Ala	Phe	Thr	Lys	Ala	Thr	Val	Met	Gly	Asn	Val	Arg	Val
65					70					75					80

Glu	Asn	His	Thr	Glu	Cys	His	Cys	Ser	Thr	Cys	Tyr	Tyr	His	Lys	Ser
				85					90					95	

<210> 2

<211> 111

<212> PRT

<213> mammalian

<400> 2

Arg	Ser	Cys	Glu	Leu	Thr	Asn	Ile	Thr	Ile	Thr	Val	Glu	Lys	Glu	Glu
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00928198-081001

Cys Gly Phe Cys Ile Ser Ile Asn Thr Thr Trp Cys Ala Gly Tyr Cys
 20 25 30
 Tyr Thr Arg Asp Leu Val Tyr Arg Asp Pro Ala Arg Pro Asn Ile Gln
 35 40 45
 Lys Thr Cys Thr Phe Lys Glu Leu Val Tyr Glu Thr Val Lys Val Pro
 50 55 60
 Gly Cys Ala His His Ala Asp Ser Leu Tyr Thr Tyr Pro Val Ala Thr
 65 70 75 80
 Glu Cys His Cys Ser Lys Cys Asp Ser Asp Ser Thr Asp Cys Thr Val
 85 90 95
 Arg Gly Leu Gly Pro Ser Tyr Cys Ser Phe Arg Glu Ile Lys Glu
 100 105 110

<210> 3
 <211> 96
 <212> PRT
 <213> mammalian

<400> 3
 Phe Pro Asp Gly Glu Phe Thr Thr Gln Asp Cys Pro Glu Cys Lys Leu
 1 5 10 15
 Arg Glu Asn Lys Tyr Phe Phe Lys Leu Gly Val Pro Ile Tyr Gln Cys
 20 25 30
 Lys Gly Cys Cys Phe Ser Arg Ala Tyr Pro Thr Pro Ala Arg Ser Arg
 35 40 45
 Lys Thr Met Leu Val Pro Lys Asn Ile Thr Ser Glu Ser Thr Cys Cys
 50 55 60
 Val Ala Lys Ala Phe Ile Arg Val Thr Val Met Gly Asn Ile Lys Leu
 65 70 75 80
 Glu Asn His Thr Gln Cys Tyr Cys Ser Thr Cys Tyr His His Lys Ile
 85 90 95

<210> 4
 <211> 111
 <212> PRT
 <213> mammalian

<400> 4
 Asn Ser Cys Glu Leu Thr Asn Ile Thr Ile Ala Val Glu Lys Glu Gly
 1 5 10 15
 Cys Gly Phe Cys Ile Thr Ile Asn Thr Thr Trp Cys Ala Gly Tyr Cys
 20 25 30
 Tyr Thr Arg Asp Leu Val Tyr Lys Asp Pro Ala Arg Pro Asn Ile Gln
 35 40 45
 Lys Thr Cys Thr Phe Lys Glu Leu Val Tyr Glu Thr Val Lys Val Pro
 50 55 60
 Gly Cys Ala His His Ala Asp Ser Leu Tyr Thr Tyr Pro Val Ala Thr
 65 70 75 80

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Arg Gly Leu Gly Pro Ser Tyr Cys Ser Phe Gly Glu Met Lys Glu
100 105 110

X12383N

-5-

Met Gly Cys Cys Phe Ser Arg Ala Tyr Pro Thr Pro Ala Arg Ser Lys
35 40 45
Lys Thr Met Leu Val Pro Lys Asn Ile Thr Ser Glu Ala Thr Cys Cys
50 55 60
Val Ala Lys Ala Phe Thr Lys Ala Thr Val Met Gly Asn Val Arg Val
65 70 75 80
Glu Asn His Thr Glu Cys His Cys Ser Thr Cys Tyr Tyr His Lys Ser
85 90 95

<210> 10
<211> 111
<212> PRT
<213> mammalian

<400> 10
Arg Ser Cys Glu Leu Thr Asn Ile Thr Ile Thr Val Glu Lys Glu Glu
1 5 10 15
Cys Ser Phe Cys Ile Ser Ile Asn Thr Thr Trp Cys Ala Gly Tyr Cys
20 25 30
Tyr Thr Arg Asp Leu Val Tyr Lys Asp Pro Ala Arg Pro Asn Ile Gln
35 40 45
Lys Ala Cys Thr Phe Lys Glu Leu Val Tyr Glu Thr Val Lys Val Pro
50 55 60
Gly Cys Ala His His Ala Asp Ser Leu Tyr Thr Tyr Pro Val Ala Thr
65 70 75 80
Glu Cys His Cys Gly Lys Cys Asp Arg Asp Ser Thr Asp Cys Thr Val
85 90 95
Arg Gly Leu Gly Pro Ser Tyr Cys Ser Phe Ser Asp Ile Arg Glu
100 105 110

<210> 11
<211> 108
<212> PRT
<213> Homo sapiens

<400> 11
Asn Ser Cys Glu Leu Thr Asn Ile Thr Ile Ala Ile Glu Lys Glu Glu
1 5 10 15
Cys Arg Phe Cys Ile Ser Ile Asn Thr Thr Trp Cys Ala Gly Tyr Cys
20 25 30
Tyr Thr Arg Asp Leu Val Tyr Lys Asp Pro Ala Arg Pro Lys Ile Gln
35 40 45
Lys Thr Cys Thr Phe Lys Glu Leu Val Tyr Glu Thr Val Arg Val Pro
50 55 60
Gly Cys Ala His His Ala Asp Ser Leu Tyr Thr Tyr Pro Val Ala Thr
65 70 75 80
Gln Cys His Cys Gly Lys Cys Asp Ser Asp Ser Thr Asp Cys Thr Val
85 90 95

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X12383N

-6-

Arg Gly Leu Gly Pro Ser Tyr Cys Ser Phe Gly Glu
100 105

<210> 12
<211> 109
<212> PRT
<213> Homo sapiens

<400> 12
Asn Ser Cys Glu Leu Thr Asn Ile Thr Ile Ala Ile Glu Lys Glu Glu
1 5 10 15

Cys Arg Phe Cys Ile Ser Ile Asn Thr Thr Trp Cys Ala Gly Tyr Cys
20 25 30

Tyr Thr Arg Asp Leu Val Tyr Lys Asp Pro Ala Arg Pro Lys Ile Gln
35 40 45

Lys Thr Cys Thr Phe Lys Glu Leu Val Tyr Glu Thr Val Arg Val Pro
50 55 60

Gly Cys Ala His His Ala Asp Ser Leu Tyr Thr Tyr Pro Val Ala Thr
65 70 75 80

Gln Cys His Cys Gly Lys Cys Asp Ser Asp Ser Thr Asp Cys Thr Val
85 90 95

Arg Gly Leu Gly Pro Ser Tyr Cys Ser Phe Gly Glu Met
100 105

<210> 13
<211> 110
<212> PRT
<213> Homo sapiens

<400> 13
Asn Ser Cys Glu Leu Thr Asn Ile Thr Ile Ala Ile Glu Lys Glu Glu
1 5 10 15

Cys Arg Phe Cys Ile Ser Ile Asn Thr Thr Trp Cys Ala Gly Tyr Cys
20 25 30

Tyr Thr Arg Asp Leu Val Tyr Lys Asp Pro Ala Arg Pro Lys Ile Gln
35 40 45

Lys Thr Cys Thr Phe Lys Glu Leu Val Tyr Glu Thr Val Arg Val Pro
50 55 60

Gly Cys Ala His His Ala Asp Ser Leu Tyr Thr Tyr Pro Val Ala Thr
65 70 75 80

Gln Cys His Cys Gly Lys Cys Asp Ser Asp Ser Thr Asp Cys Thr Val
85 90 95

Arg Gly Leu Gly Pro Ser Tyr Cys Ser Phe Gly Glu Met Lys
100 105 110

009928198 "081001

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ataaccatca	acaccacttg	gtgtgtctggc	tactgtctaca	ccagggatct	ggtgtataag	120	
gaaggaccca	ggcccaaaat	ccagaaaaca	tgtaccttca	aggaactggg	atatgaaaca	180	
gtgagagtg	ccgggtgtgc	tcaccatgca	gattccttgt	atacataccc	agtggccacc	240	
ccagtgtcact	gtggcaagt	tgacagcgac	agcactgatt	gtactgtgcg	agggcctggg	300	
cgcctgtact	gtctctttgg	tgaattgaaa	gaa			333	

<220>
<223> Description of Artificial Sequence: Modified to facilitate cloning.

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ccgggtgcc caatacttca gtgcatgggc tgctgcttct caagagata tcccactcca 120
ctaaggttca agaagacgat gttggtccaa aagaacgtca cctcagagtc cacttgetgt 180
gtagctaaat catataacag gtcatacagta atggggggtt tcaaagtga gaaccacag 240
cgctgcact gcagtacttg ttattatcac aaatct 276
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<210> 20
<211> 324
<212> DNA
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence: Modified to facilitate cloning.

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gacccggccc	gtcccaaaat	ccagaaaaca	tgtaccttca	aggaactggt	atatgaaaca	180
gtacgcgtgc	ccggctgtgc	tcaccatgca	gatttcctgt	atacatacc	agtggccacc	240
cagtgctact	gtggcaagtg	tgaccagcgc	agcactgatt	gtactgtcgg	aggcctgggg	300
cccagctact	gctcttttgg	tgaa				324

SEQUENCE LISTING

<110> Eli Lilly and Company

<120> FSH AND FSH VARIANT FORMULATIONS, PRODUCTS AND METHODS

<130> X12383M Sequence Listing

<140>

<141>

<150> 60/093906

<151> 1998-07-23

<150> 60/094611

<151> 1998-07-30

<150> 60/094767

<151> 1998-07-31

<150> 60/098711

<151> 1998-09-01

<150> 60/100696

<151> 1998-09-17

<160> 20

<170> PatentIn Ver. 2.0

<210> 1

<211> 96

<212> PRT

<213> mammalian

<400> 1

Phe	Pro	Asp	Gly	Glu	Phe	Thr	Met	Gln	Gly	Cys	Pro	Glu	Cys	Lys	Leu
1				5					10					15	

Lys	Glu	Asn	Lys	Tyr	Phe	Ser	Lys	Pro	Asp	Ala	Pro	Ile	Tyr	Gln	Cys
		20					25						30		

Met	Gly	Cys	Cys	Phe	Ser	Arg	Ala	Tyr	Pro	Thr	Pro	Ala	Arg	Ser	Lys
		35					40					45			

Lys	Thr	Met	Leu	Val	Pro	Lys	Asn	Ile	Thr	Ser	Glu	Ala	Thr	Cys	Cys
	50					55					60				

Val Ala Lys Ala Phe Thr Lys Ala Thr Val Met Gly Asn Val Arg Val
65 70 75 80

Glu Asn His Thr Glu Cys His Cys Ser Thr Cys Tyr Tyr His Lys Ser
85 90 95

<210> 2

<211> 111

<212> PRT

<213> mammalian

<400> 2

Arg Ser Cys Glu Leu Thr Asn Ile Thr Ile Thr Val Glu Lys Glu Glu
1 5 10 15

Cys Gly Phe Cys Ile Ser Ile Asn Thr Thr Trp Cys Ala Gly Tyr Cys
20 25 30

Tyr Thr Arg Asp Leu Val Tyr Arg Asp Pro Ala Arg Pro Asn Ile Gln
35 40 45

Lys Thr Cys Thr Phe Lys Glu Leu Val Tyr Glu Thr Val Lys Val Pro
50 55 60

Gly Cys Ala His His Ala Asp Ser Leu Tyr Thr Tyr Pro Val Ala Thr
65 70 75 80

Glu Cys His Cys Ser Lys Cys Asp Ser Asp Ser Thr Asp Cys Thr Val
85 90 95

Arg Gly Leu Gly Pro Ser Tyr Cys Ser Phe Arg Glu Ile Lys Glu
100 105 110

<210> 3

<211> 96

<212> PRT

<213> mammalian

<400> 3

Phe Pro Asp Gly Glu Phe Thr Thr Gln Asp Cys Pro Glu Cys Lys Leu
1 5 10 15

Arg Glu Asn Lys Tyr Phe Phe Lys Leu Gly Val Pro Ile Tyr Gln Cys

20 25 30
 Lys Gly Cys Cys Phe Ser Arg Ala Tyr Pro Thr Pro Ala Arg Ser Arg
 35 40 45
 Lys Thr Met Leu Val Pro Lys Asn Ile Thr Ser Glu Ser Thr Cys Cys
 50 55 60
 Val Ala Lys Ala Phe Ile Arg Val Thr Val Met Gly Asn Ile Lys Leu
 65 70 75 80
 Glu Asn His Thr Gln Cys Tyr Cys Ser Thr Cys Tyr His His Lys Ile
 85 90 95

<210> 4
 <211> 111
 <212> PRT
 <213> mammalian

<400> 4
 Asn Ser Cys Glu Leu Thr Asn Ile Thr Ile Ala Val Glu Lys Glu Gly
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 Cys Gly Phe Cys Ile Thr Ile Asn Thr Thr Trp Cys Ala Gly Tyr Cys
 20 25 30

Tyr Thr Arg Asp Leu Val Tyr Lys Asp Pro Ala Arg Pro Asn Ile Gln
 35 40 45

Lys Thr Cys Thr Phe Lys Glu Leu Val Tyr Glu Thr Val Lys Val Pro
 50 55 60

Gly Cys Ala His His Ala Asp Ser Leu Tyr Thr Tyr Pro Val Ala Thr
 65 70 75 80

Ala Cys His Cys Gly Lys Cys Asn Ser Asp Ser Thr Asp Cys Thr Val
 85 90 95

Arg Gly Leu Gly Pro Ser Tyr Cys Ser Phe Gly Asp Met Lys Glu
 100 105 110

<210> 5
 <211> 92

<212> PRT

<213> Homo sapiens

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Ala Pro Asp Val Gln Asp Cys Pro Glu Cys Thr Leu Gln Glu Asn Pro
 1 5 10 15

Phe Phe Ser Gln Pro Gly Ala Pro Ile Leu Gln Cys Met Gly Cys Cys
 20 25 30

Phe Ser Arg Ala Tyr Pro Thr Pro Leu Arg Ser Lys Lys Thr Met Leu
 35 40 45

Val Gln Lys Asn Val Thr Ser Glu Ser Thr Cys Cys Val Ala Lys Ser
 50 55 60

Tyr Asn Arg Val Thr Val Met Gly Gly Phe Lys Val Glu Asn His Thr
 65 70 75 80

Ala Cys His Cys Ser Thr Cys Tyr Tyr His Lys Ser
 85 90

<210> 6

<211> 111

<212> PRT

<213> Homo sapiens

<400> 6

Asn Ser Cys Glu Leu Thr Asn Ile Thr Ile Ala Ile Glu Lys Glu Glu
 1 5 10 15

Cys Arg Phe Cys Ile Ser Ile Asn Thr Thr Trp Cys Ala Gly Tyr Cys
 20 25 30

Tyr Thr Arg Asp Leu Val Tyr Lys Asp Pro Ala Arg Pro Lys Ile Gln
 35 40 45

Lys Thr Cys Thr Phe Lys Glu Leu Val Tyr Glu Thr Val Arg Val Pro
 50 55 60

Gly Cys Ala His His Ala Asp Ser Leu Tyr Thr Tyr Pro Val Ala Thr
 65 70 75 80

Gln Cys His Cys Gly Lys Cys Asp Ser Asp Ser Thr Asp Cys Thr Val
 85 90 95

Arg Gly Leu Gly Pro Ser Tyr Cys Ser Phe Gly Glu Met Lys Glu

100

105

110

<210> 7

<211> 96

<212> PRT

<213> mammalian

<400> 7

Phe Pro Asp Gly Glu Phe Thr Met Gln Gly Cys Pro Glu Cys Lys Leu
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Lys Glu Asn Lys Tyr Phe Ser Lys Leu Gly Ala Pro Ile Tyr Gln Cys
 20 25 30

Met Gly Cys Cys Phe Ser Arg Ala Tyr Pro Thr Pro Ala Arg Ser Lys
 35 40 45

Lys Thr Met Leu Val Pro Lys Asn Ile Thr Ser Glu Ala Thr Cys Cys
 50 55 60

Val Ala Lys Ala Phe Thr Lys Ala Thr Val Met Gly Asn Ala Arg Val
 65 70 75 80

Glu Asn His Thr Glu Cys His Cys Ser Thr Cys Tyr Tyr His Lys Ser
 85 90 95

<210> 8

<211> 111

<212> PRT

<213> mammalian

<400> 8

Asn Ser Cys Glu Leu Thr Asn Ile Thr Ile Thr Val Glu Lys Glu Glu
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Cys Asn Phe Cys Ile Ser Ile Asn Thr Thr Trp Cys Ala Gly Tyr Cys
 20 25 30

Tyr Thr Arg Asp Leu Val Tyr Lys Asp Pro Ala Arg Pro Asn Ile Gln
 35 40 45

Lys Thr Cys Thr Phe Lys Glu Leu Val Tyr Glu Thr Val Lys Val Pro
 50 55 60

Cys Ser Phe Cys Ile Ser Ile Asn Thr Thr Trp Cys Ala Gly Tyr Cys
 20 25 30
 Tyr Thr Arg Asp Leu Val Tyr Lys Asp Pro Ala Arg Pro Asn Ile Gln
 35 40 45
 Lys Ala Cys Thr Phe Lys Glu Leu Val Tyr Glu Thr Val Lys Val Pro
 50 55 60
 Gly Cys Ala His His Ala Asp Ser Leu Tyr Thr Tyr Pro Val Ala Thr
 65 70 75 80
 Glu Cys His Cys Gly Lys Cys Asp Arg Asp Ser Thr Asp Cys Thr Val
 85 90 95
 Arg Gly Leu Gly Pro Ser Tyr Cys Ser Phe Ser Asp Ile Arg Glu
 100 105 110

<210> 11
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 11
 Asn Ser Cys Glu Leu Thr Asn Ile Thr Ile Ala Ile Glu Lys Glu Glu
 1 5 10 15
 Cys Arg Phe Cys Ile Ser Ile Asn Thr Thr Trp Cys Ala Gly Tyr Cys
 20 25 30
 Tyr Thr Arg Asp Leu Val Tyr Lys Asp Pro Ala Arg Pro Lys Ile Gln
 35 40 45
 Lys Thr Cys Thr Phe Lys Glu Leu Val Tyr Glu Thr Val Arg Val Pro
 50 55 60
 Gly Cys Ala His His Ala Asp Ser Leu Tyr Thr Tyr Pro Val Ala Thr
 65 70 75 80
 Gln Cys His Cys Gly Lys Cys Asp Ser Asp Ser Thr Asp Cys Thr Val
 85 90 95
 Arg Gly Leu Gly Pro Ser Tyr Cys Ser Phe Gly Glu
 100 105

<210> 12

<212> PRT

<213> Homo sapiens

Asn Ser Cys Glu Leu Thr Asn Ile Thr Ile Ala Ile Glu Lys Glu Glu
1 5 10 15

Cys Arg Phe Cys Ile Ser Ile Asn Thr Thr Trp Cys Ala Gly Tyr Cys
20 25 30

Tyr Thr Arg Asp Leu Val Tyr Lys Asp Pro Ala Arg Pro Lys Ile Gln
35 40 45

Lys Thr Cys Thr Phe Lys Glu Leu Val Tyr Glu Thr Val Arg Val Pro
50 55 60

Gly Cys Ala His His Ala Asp Ser Leu Tyr Thr Tyr Pro Val Ala Thr
65 70 75 80

Gln Cys His Cys Gly Lys Cys Asp Ser Asp Ser Thr Asp Cys Thr Val
85 90 95

Arg Gly Leu Gly Pro Ser Tyr Cys Ser Phe Gly Glu Met
100 105

<211> 110

<212> - PRT

<213> Homo sapiens

Asn Ser Cys Glu Leu Thr Asn Ile Thr Ile Ala Ile Glu Lys Glu Glu
1 5 10 15

Cys Arg Phe Cys Ile Ser Ile Asn Thr Thr Trp Cys Ala Gly Tyr Cys
20 25 30

Tyr Thr Arg Asp Leu Val Tyr Lys Asp Pro Ala Arg Pro Lys Ile Gln
35 40 45

Lys Thr Cys Thr Phe Lys Glu Leu Val Tyr Glu Thr Val Arg Val Pro
50 55 60

Gly Cys Ala His His Ala Asp Ser Leu Tyr Thr Tyr Pro Val Ala Thr
65 70 75 80

Gln Cys His Cys Gly Lys Cys Asp Ser Asp Ser Thr Asp Cys Thr Val
 85 90 95

Arg Gly Leu Gly Pro Ser Tyr Cys Ser Phe Gly Glu Met Lys
 100 105 110

<210> 14

<211> 276

<212> DNA

<213> Homo sapiens

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 ctaaggtcca agaagacgat gttgggtccaa aagaacgtca cctcagagtc cacttgctgt 180
 gtagctaaat catataacag ggtcacagta atgggggggt tcaaagtga gaaccacacg 240
 gcgtgccact gcagtacttg ttattatcac aaatct 276

<210> 15

<211> 324

<212> DNA

<213> Homo sapiens

<400> 15

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 gaccagcca ggcccaaaat ccagaaaaca tgtaccttca aggaactggt atatgaaaca 180
 gtgagagtgc ccggctgtgc tcaccatgca gattccttgt atacataccc agtggccacc 240
 cagtgtcact gtggcaagtg tgacagcgac agcactgatt gtactgtgcg aggcctgggg 300
 ccagctact gtccttttgg tgaa 324

<210> 16

<211> 327

<212> DNA

<213> Homo sapiens

<400> 16

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 gaccagcca ggcccaaaat ccagaaaaca tgtaccttca aggaactggt atatgaaaca 180
 gtgagagtgc ccggctgtgc tcaccatgca gattccttgt atacataccc agtggccacc 240
 cagtgtcact gtggcaagtg tgacagcgac agcactgatt gtactgtgcg aggcctgggg 300
 ccagctact gtccttttgg tgaaatg 327

<210> 17

<211> 330

<212> DNA

<213> Homo sapiens

<400> 17

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gacccagcca ggcccaaat ccagaaaaca tgtaccttca aggaactggt atatgaaaca 180
gtgagagtgc ccggtgtgc tcaccatgca gattccttgt atacataccc agtggccacc 240
cagtgtcact gtggcaagtg tgacagcgac agcactgatt gtactgtgcg aggcctgggg 300
cccagctact gtccttttg tgaaatgaaa 330
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<210> 18

<211> 333

<212> DNA

<213> Homo sapiens

<400> 18

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ataagcatca acaccacttg gtgtgctggc tactgctaca ccagggatct ggtgtataag 120
gacccagcca ggcccaaat ccagaaaaca tgtaccttca aggaactggt atatgaaaca 180
gtgagagtgc ccggtgtgc tcaccatgca gattccttgt atacataccc agtggccacc 240
cagtgtcact gtggcaagtg tgacagcgac agcactgatt gtactgtgcg aggcctgggg 300
cccagctact gtccttttg tgaaatgaaa gaa 333
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<210> 19

<211> 276

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Modified to facilitate cloning.

<400> 19

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gtcctgtatg tgcaggattg ccagaaatgc acgctacagg aaaaccatt cttctcccag 60
ccgggtgccc caatacttca gtgcatgggc tgctgcttct caagagcata tccactcca 120
ctaagggtcca agaagacgat gttggtccaa aagaacgtca cctcagagtc cacttgctgt 180
gtagctaaat catataacag ggtcacagta atgggggggt tcaaagtgga gaaccacacg 240
gcgtgccact gcagtacttg ttattatcac aaatct 276
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<210> 20

<211> 324

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Modified to facilitate cloning.

<400> 20

aacagctgtg agctcaccaa catcaccatt gcaatagaga aagaagaatg tcgtttctgc 60
atatcgatca acaccacttg gtgtgctggc tactgctaca ccagggatct ggtgtataag 120
gacccggccc gtcccaaaat ccagaaaaca tgtaccttca aggaactggt atatgaaaca 180
gtacgcgtgc ccggctgtgc tcaccatgca gattccttgt atacataccc agtggccacc 240
cagtgtcact gtggcaagtg tgacagcgac agcactgatt gtactgtgcg aggcctgggg 300
cccagctact gtccttttgg tgaa 324

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